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# **Terra Energy Partners, LLC LONG STRING POST JOB REPORT**

**FEDERAL RWF 332-9 05-045-24401  
S:9 T:6S R:94W Garfield CO**

CallSheet #: 79232  
Proposal #: 56326



**LONG STRING Post Job Report**

**Attention:** Dustin Childers | (936) 524-8828 | dchilders@terraep.com  
Terra Energy Partners, LLC  
4828 Loop Central Dr., Suite 900 | Houston, TX 77081

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Dear Dustin Childers,

Thank you for the opportunity to provide cementing services on this well. American Cementing strives to achieve complete customer satisfaction. If you have any questions regarding the services or data provided, please contact American Cementing at any time.

Sincerely,

**Michael Harold**

Field Engineer II | (970) 773-3636 | michael.harold@americacementing.com

**Field Office**      28730 US-6, Rifle, CO 81650  
Phone: (970) 657-1157

## Job Details & Summary

### Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Casing	Outer	9.625	8.921	36	n/a	0	1100	0
Open Hole	Outer	n/a	8.75	n/a	n/a	1100	9743	45
Casing	Inner	4.5	4	11.6	n/a	0	9743	0

### Timing

Event	Date/Time
Call Out	11/28/2021 00:00
Depart Facility	11/28/2021 03:28
On Location	11/28/2021 03:40
Rig Up Iron	11/28/2021 05:05
Job Started	11/28/2021 08:25
Job Completed	11/28/2021 10:19
Rig Down Iron	11/28/2021 10:50
Depart Location	11/28/2021 11:45

### Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Field Storage Silo	FSS(CTS)-438		
Field Storage Silo	FSS(CTS)-470		
AS Cement Trailer	CTF-7145	TRC(TRB)-424	Gonzales, Ivan
AS Cement Trailer	CTF-9309	TRC(TRB)-425	Kirchenwitz, Jacob
AS Cement Trailer	CTF-019	TRC(TRB)-059	Linn, Paul
Cement Trailer	CTF-280	TRC(TRB)-201	Castillo, Francisco
Cement Pump	CPF-011		McNeal, Lawrence
Light Duty Vehicles	LDV-063		Lancaster, Stephen

### General Job Information

Metrics	Value
Well Fluid Density	11.35 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	673 bbls
Rig Circulation Time	1.2 hours
Calculated Displacement	149.7 bbls
Actual Displacement	150 bbls
Total Spacer to Surface	0 bbls
Total CMT to Surface	0 bbls
Well Topped Out	N/A

### Job Details

Metrics	Value
Flare Prior to Job	No
Flare Prior to Job	0 units
Flare During Job	No
Flare During Job	0 units
Flare at End of Job	No
Flare at End of Job	0 units
Well Full Prior to Job	Yes
Well Fluid Density Into Well	11.35 lb/gal
Well Fluid Density Out of Well	11.35 lb/gal

### Job Details (cont.)

Metrics	Value
BHCT	164 °F
BHST	234 °F

### Circulation

Lost Circulation Experienced	Losses into Spacer	Losses into Cement	Losses into Displacement
No			

### Job Execution Information

Fluid	Product	Function	Density (lb/gal)	Yield (ft <sup>3</sup> /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Designed Top (ft)
1	Water	Flush	8.34			42.00		10.00	4134
2	Mud Flush	Flush	8.45			40.86		20.00	4260
3	Water	Flush	8.34			42.00		10.00	4512
4	Primary Cement	Primary	14.20	1.72	8.08		1323.00	405.81	4638
5	Displacement	DisplacementFinal	8.34			42.00		151.00	0


### Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Flush	Mud Flush	SAPP	Surfactant	10.00	lb/bbl
2	Flush	Mud Flush	SS-201	Surfactant	0.50	gal/bbl
4	Primary	Primary Cement	CLASS G	Cement	80.00	%
4	Primary	Primary Cement	FLY ASH (POZZOLAN)	Extender	20.00	%
4	Primary	Primary Cement	FL-66	FluidLoss	0.40	%BWOB
4	Primary	Primary Cement	FP-24	Defoamer	0.30	%BWOB
4	Primary	Primary Cement	GW-86	Viscosifier	0.10	%BWOB
4	Primary	Primary Cement	IntegraSeal POLI	LostCirculation	0.25	lb/sk
4	Primary	Primary Cement	R-3	Retarder	0.30	%BWOB
4	Primary	Primary Cement	S-8	StrengthRetgression	27.00	%BWOB

## Job Logs

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	Callout	11/28/2021	00:00					Callout for job ,Rolling from last location
2	Safety Meeting	11/28/2021	03:10					Pre convoy safety meeting
3	Depart Location	11/28/2021	03:20					Leave Rifle Yard
4	Arrive On Location	11/28/2021	03:40					Arrive at bottom of hill to be pulled up
5	Arrive On Location	11/28/2021	05:05					All equip up the hill
6	Rig Up Iron	11/28/2021	05:05					Spot equipment and rig up
7	Safety Meeting	11/28/2021	08:25					Hold safety meeting on rig floor
8	Fill lines water	11/28/2021	08:39					Fill lines with water
9	Pressure Test Lines	11/28/2021	08:40				5000	Test lines to 5000 psi
10	Pump 20 bbls mudflush	11/28/2021	08:42				48	Pump 20 bbls mudflush
11	Pump water	11/28/2021	08:43				690	Pump 10 bbls water
12	Pump Cement	11/28/2021	08:46					Start cement downhole
13	Pump Cement	11/28/2021	08:49	14.2	7	10	1340	Weighted at 14.2 ppg
14	Pump Cement	11/28/2021	08:53	14.2	7	50	1400	50 bbls pumped
15	Pump Cement	11/28/2021	09:01	14.2	6	100	900	100 bbls pumped Full returns
16	Pump Cement	11/28/2021	09:08	14.2	6.4	150	800	150 bbls pumped
17	Pump Cement	11/28/2021	09:17	14.2	6.5	200	890	200 bbls pumped
18	Pump Cement	11/28/2021	09:25	14.1	6.8	250	785	250 bbls pumped
19	Pump Cement	11/28/2021	09:35	14.2	7.2	300	941	300 bbls pumped Full returns
20	Pump Cement	11/28/2021	09:41	14.2	7.2	350	850	350 bbls pumped
21	Pump Cement	11/28/2021	09:49	14.2		405		Shut down wash up blow lines with air
22	Drop Top Plug	11/28/2021	09:52					Drop top plug,verified it is gone
23	Pump Displacement	11/28/2021	09:57		8			Start displacing with water
24	Pump Displacement	11/28/2021	10:04		8	50	1245	Displacing Full Returns
25	Pump Displacement	11/28/2021	10:08		8	80	1800	Displacing Full Returns
26	Pump Displacement	11/28/2021	10:11		8	100	2200	Displacing Full Returns
27	Pump Displacement	11/28/2021	10:13		8	120	2491	Displacing Full Returns
28	Pump Displacement	11/28/2021	10:15		8	140	2520	Displacing Full Returns
29	Bump Plug	11/28/2021	10:19		4	150	3448	Bumped plug 3448 psi 150 bbls pumped
30	Check Floats	11/28/2021	10:23					Bleed off check floats Got 2 bbls back Floats held
31	Pickle pump	11/28/2021	10:26					Pickle pump wash to pit
32	Rig Up Iron	11/28/2021	10:26					Rig down floor, bring back crossovers

## Pump Diagrams


**JobMaster Program Version 5.01C1**  
 Job Number: 79232  
 Customer: TERRA  
 Well Name: FEDERAL RWF 332-9 045-244

